

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Enoch Avelto Examiner #: 72214 Date: 11/09/01
 Art Unit: 2121 Phone Number 301 246 Serial Number: 09/609829
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Integration search

6,235,501

STAFF USE ONLY**Type of Search****Vendors and cost where applicable**

Searcher: <u>AI 2009/016</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>6-0167</u>	AA Sequence (#) _____	Dialog <u>X</u>
Searcher Location: <u>SLC 2700</u>	Structure (#) _____	Questel/Orbit <u>X</u>
Date Searcher Picked Up: <u>11/9</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>11/9</u>	Litigation <u>X</u>	Lexis/Nexis <u>X</u>
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>5</u>	Other _____	Other (specify) _____

1/9/1

DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat
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10335794

Basic Patent (No,Kind,Date): EP 470807 A1 19920212 <No. of Patents: 017>

PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 69125543 C0 19970515
GERAET FUER OPTISCHE PLATTEN (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): JP 90212537 A 19900809; JP 90285006 A
19901022; JP 9144798 A 19910311

Applic (No,Kind,Date): DE 69125543 A 19910806
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: German

Patent (No,Kind,Date): DE 69131770 C0 19991209
GERAET FUER OPTISCHE PLATTEN (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): JP 90212537 A 19900809; JP 90285006 A
19901022; JP 9144798 A 19910311

Applic (No,Kind,Date): DE 69131770 A 19910806
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: German

Patent (No,Kind,Date): DE 69125543 T2 19971113
GERAET FUER OPTISCHE PLATTEN (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): JP 90212537 A 19900809; JP 90285006 A
19901022; JP 9144798 A 19910311

Applic (No,Kind,Date): DE 69125543 A 19910806
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: German

Patent (No,Kind,Date): DE 69131770 T2 20000309
GERAET FUER OPTISCHE PLATTEN (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): JP 90212537 A 19900809; JP 90285006 A
19901022; JP 9144798 A 19910311

Applic (No,Kind,Date): DE 69131770 A 19910806
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 69125543 P 19970515 DE REF CORRESPONDS TO (ENTSPRICHT)

DE 69125543 P 19971113 DE 8373 EP 470807 P 19970515
TRANSLATION OF PATENT
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
HAS BEEN PUBLISHED (UEBERSETZUNG DER
PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)

DE 69125543 P 19980507 DE 8364 NO OPPOSITION DURING TERM OF
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE
DASS EINSPRUCH ERHOBEN WURDE)

DE 69131770 P 19991209 DE REF CORRESPONDS TO (ENTSPRICHT)

Best Available Copy

EP 727775 P 19991209
DE 69131770 P 20000309 DE 8373 TRANSLATION OF PATENT
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
HAS BEEN PUBLISHED (UEBERSETZUNG DER
PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 470807 A1 19920212
OPTICAL DISC APPARATUS (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): JP 90212537 A 19900809; JP 90285006 A
19901022; JP 9144798 A 19910311
Applic (No,Kind,Date): EP 91307202 A 19910806
Designated States: (National) DE; FR; GB
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: ; G 92-050843
Language of Document: English
Patent (No,Kind,Date): EP 727775 A2 19960821
OPTICAL DISC APPARATUS Optical disc apparatus (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): EP 91307202 A3 19910806; JP 90212537 A
19900809; JP 90285006 A 19901022; JP 9144798 A 19910311
Applic (No,Kind,Date): EP 96106281 A 19910806
Designated States: (National) DE; FR; GB
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: English
Patent (No,Kind,Date): EP 727775 A3 19960918
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Priority (No,Kind,Date): EP 91307202 A3 19910806; JP 90212537 A
19900809; JP 90285006 A 19901022; JP 9144798 A 19910311
Applic (No,Kind,Date): EP 96106281 A 19910806
Designated States: (National) DE; FR; GB
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: English; French; German
Patent (No,Kind,Date): EP 470807 B1 19970409
OPTICAL DISC APPARATUS (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): JP 9144798 A 19910311; JP 90212537 A
19900809; JP 90285006 A 19901022
Applic (No,Kind,Date): EP 91307202 A 19910806
Designated States: (National) DE; FR; GB
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: English
Patent (No,Kind,Date): EP 727775 B1 19991103
OPTICAL DISC APPARATUS (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): EP 91307202 A3 19910806; JP 90212537 A
19900809; JP 90285006 A 19901022; JP 9144798 A 19910311
Applic (No,Kind,Date): EP 96106281 A 19910806
Designated States: (National) DE; FR; GB
IPC: * G11B-007/08; G11B-011/10; G11B-013/04
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):
EP 470807 P 19900809 EP AA PRIORITY (PATENT

		APPLICATION)	(PRIORITAET	(PATENTANMELDUNG))
EP 470807	P	JP 90212537 A 19900809 19901022 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))		
EP 470807	P	JP 90285006 A 19901022 19910311 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))		
EP 470807	P	JP 9144798 A 19910311 19910806 EP AE EP-APPLICATION (EUROPAEISCHE ANMELDUNG)		
EP 470807	P	EP 91307202 A 19910806 19920212 EP AK DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT (IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN)		
EP 470807	P	DE FR GB 19920212 EP A1 PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)		
EP 470807	P	19920520 EP 17P REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 920323		
EP 470807	P	19950315 EP 17Q FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHIED) 950131		
EP 470807	P	19960821 EP AH DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:) EP 727775 P		
EP 470807	P	19970409 EP AK DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)		
EP 470807	P	DE FR GB 19970409 EP B1 PATENT SPECIFICATION (PATENTSCHRIFT)		
EP 470807	P	19970409 EP DX MISCELLANEOUS: (DELETED) (DIVERSES: (GELOESCHT))		
EP 470807	P	19970515 EP REF CORRESPONDS TO: (ENTSPRICHT) DE 69125543 P 19970515		
EP 470807	P	19970808 EP ET FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)		
EP 470807	P	19980401 EP 26N NO OPPOSITION FILED (KEIN EINSPRUCH EINGELEGT)		
EP 470807	P	19991103 EP AH DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:) EP 727775 P		
EP 727775	P	19900809 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))		
EP 727775	P	JP 90212537 A 19900809 19901022 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))		
EP 727775	P	JP 90285006 A 19901022 19910311 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))		
EP 727775	P	JP 9144798 A 19910311 19910806 EP AA DIVIDED OUT OF (AUSSCHIEDUNG AUS)		
EP 727775	P	EP 91307202 A3 19910806 19910806 EP AE EP-APPLICATION (EUROPAEISCHE ANMELDUNG) EP 96106281 A 19910806		

EP 727775	P	19960821	EP AC	DIVISIONAL APPLICATION (ART. 76) OF: (TEILANMELDUNG (ART. 76) AUS:) EP 470807 P
EP 727775	P	19960821	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
			DE FR GB	
EP 727775	P	19960821	EP A2	PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 727775	P	19960821	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 960502
EP 727775	P	19960918	EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT: (IN EINEM RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
			DE FR GB	
EP 727775	P	19960918	EP A3	SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 727775	P	19961023	EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.)) MIYAGAWA, NAOYASU ; GOTOH, YASUHIRO
EP 727775	P	19980204	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 971223
EP 727775	P	19991103	EP AC	DIVISIONAL APPLICATION (ART. 76) OF: (TEILANMELDUNG (ART. 76) AUS:) EP 470807 P
EP 727775	P	19991103	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)
			DE FR GB	
EP 727775	P	19991103	EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)
EP 727775	P	19991209	EP REF	CORRESPONDS TO: (ENTSPRICHT) DE 69131770 P 19991209
EP 727775	P	20000303	EP ET	FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)
EP 727775	P	20001018	EP 26N	NO OPPOSITION FILED (KEIN EINSPRUCH EINGELEGT)

JAPAN (JP)

Patent (No,Kind,Date): JP 4095224 A2 19920327
 OPTICAL DISK DEVICE (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
 Author (Inventor): MIYAGAWA NAOYASU; GOTO YASUHIRO
 Priority (No,Kind,Date): JP 90212537 A 19900809
 Applic (No,Kind,Date): JP 90212537 A 19900809
 IPC: * G11B-007/00; G11B-007/12; G11B-019/12
 JAPIO Reference No: ; 160323P000056
 Language of Document: Japanese

Patent (No,Kind,Date): JP 4157635 A2 19920529
 OPTICAL HEAD AND OPTICAL DISK DEVICE (English)
 Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
 Author (Inventor): MIYAGAWA NAOYASU; GOTO YASUHIRO
 Priority (No,Kind,Date): JP 90285006 A 19901022
 Applic (No,Kind,Date): JP 90285006 A 19901022
 IPC: * G11B-007/135; G11B-007/00; G11B-019/12
 JAPIO Reference No: ; 160451P000007
 Language of Document: Japanese

Patent (No,Kind,Date): JP 4281232 A2 19921006

OPTICAL HEAD AND OPTICAL DISK DEVICE (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): MIYAGAWA NAOYASU; GOTO YASUHIRO
Priority (No,Kind,Date): JP 9144798 A 19910311
Applic (No,Kind,Date): JP 9144798 A 19910311
IPC: * G11B-007/135; G11B-007/00; G11B-007/09
JAPIO Reference No: ; 170078P000022

Language of Document: Japanese
Patent (No,Kind,Date): JP 2626205 B2 19970702
Priority (No,Kind,Date): JP 90212537 A 19900809
Applic (No,Kind,Date): JP 90212537 A 19900809
IPC: * G11B-007/135; G11B-007/00; G11B-019/12
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056

Language of Document: Japanese
Patent (No,Kind,Date): JP 3019870 B2 20000313
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): MYAGAWA NAOYASU; GOTO YASUHIRO
Priority (No,Kind,Date): JP 90285006 A 19901022
Applic (No,Kind,Date): JP 90285006 A 19901022
IPC: * G11B-007/135; G11B-019/12
Language of Document: Japanese

SINGAPORE (SG)

Patent (No,Kind,Date): SG 4300229 A1 19971017
OPTICAL DISC APPARATUS (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): MIYAGAWA NAOYASU; GOTOH YASUHIRO
Priority (No,Kind,Date): JP 90212537 A 19900809; JP 90285006 A 19901022; JP 9144798 A 19910311
Applic (No,Kind,Date): SG 0096059 A 19910806
IPC: * G11B-007/08; G11B-011/10; G11B-013/04; G11B-007/12; G11B-019/12
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: English

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5235581 A 19930810
OPTICAL RECORDING/REPRODUCING APPARATUS FOR OPTICAL DISKS WITH VARIOUS DISK SUBSTRATE THICKNESSES (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): JP 90212537 A 19900809; JP 90285006 A 19901022; JP 9144798 A 19910311
Applic (No,Kind,Date): US 740629 A 19910805
National Class: * 369044120; 369112000; 369044230; 369058000
IPC: * G11B-007/00
Derwent WPI Acc No: * G 92-050843
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: English

Patent (No,Kind,Date): US RE36445 E 19991214
OPTICAL RECORDING/REPRODUCING APPARATUS FOR OPTICAL DISKS WITH VARIOUS DISK SUBSTRATE THICKNESSES (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): MIYAGAWA NAOYASU (JP); GOTOH YASUHIRO (JP)
Priority (No,Kind,Date): US 396981 A 19950301; JP 90212537 A 19900809; JP 90285006 A 19901022; JP 9144798 A 19910311; US 740629 A5 19910805
Applic (No,Kind,Date): US 396981 A 19950301
Addnl Info: 5235581 19930810 Reissue of
National Class: * 369058000; 369044120; 369112000; 369094000
IPC: * G11B-007/00
Derwent WPI Acc No: * G 92-050843; G 96-373094
JAPIO Reference No: * 160323P000056; 160451P000007; 170078P000022
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 36445	E	19900809	US AA	PRIORITY (PATENT)
		JP 90212537	A	19900809
US 36445	E	19901022	US AA	PRIORITY (PATENT)
		JP 90285006	A	19901022
US 36445	E	19910311	US AA	PRIORITY (PATENT)
		JP 9144798	A	19910311
US 36445	E	19910805	US AA	PRIORITY
		US 740629	A5	19910805
US 36445	E	19950301	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 396981	A	19950301
US 36445	E	19991214	US E	REISSUE
US 5235581	P	19900809	US AA	PRIORITY (PATENT)
		JP 90212537	A	19900809
US 5235581	P	19901022	US AA	PRIORITY (PATENT)
		JP 90285006	A	19901022
US 5235581	P	19910311	US AA	PRIORITY (PATENT)
		JP 9144798	A	19910311
US 5235581	P	19910805	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 740629	A	19910805
US 5235581	P	19910805	US AS02	ASSIGNMENT OF ASSIGNOR'S
		INTEREST		
		MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. A		
		CORPORATION OF JAPAN 1006, OAZA KADOM ;		
		MIYAGAWA, NAOYASU : 19910730; GOTOH, YASUHIRO		
		: 19910730		
US 5235581	P	19930810	US A	PATENT
US 5235581	P	19950606	US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)		
		950301		
US 5235581	P	20000201	US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)		
		19991213		
US 5235581	P	20000222	US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)		
		19991019		
US 5235581	P	20000314	US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)		
		19991213		
US 5235581	P	20000502	US RF	REISSUE APPLICATION FILED
		(REISSUE APPL. FILED)		
		19991213		

Aug. 10, 1993

LEXIS-NEXIS
Library: PATENT
File: ALL

Optical recording/reproducing apparatus for optical disks
with various disk substrate thicknesses

REISSUE: Reissue Application filed Dec. 13, 1999 (O.G. May 2, 2000) Ex. Gp.:
2753; Re. S.N. 09/460,222

Reissue Application filed Dec. 13, 1999 (O.G. Mar. 14, 2000) Ex. Gp.: 2753;
Re. S.N. 09/460,221

Reissue Application filed Oct. 19, 1999 (O.G. Feb. 22, 2000) Ex. Gp.: 2753;
Re. S.N. 09/420,603

Reissue Application filed Dec. 13, 1999 (O.G. Feb. 1, 2000) Ex. Gp.: 2753;
Re. S.N. 09/460,223

This Patent was reissued on Dec. 14, 1999 as Reissue Patent Re 36,445.

Reissue Application filed Mar. 1, 1995 (O.G. Jun. 6, 1995) Ex. Gp.: 2513; Re.
S.N. 08/396,981

CORE TERMS: optical, disc, waveguide, lens, substrate, converging, thickness,
beam, tracking, coupler...

5,235,581 OR 5235581

LEXIS-NEXIS
Library: PATENT
File: CASES

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,235,581 OR 5235581

LEXIS-NEXIS
Library: PATENT
File: JNLS

Your search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

1/8 LGST (1/1) - (C) LEGSTAT
PN - US 5235581 [US5235581]
AP - US 740629/91 19910805 [1991US-0740629]
DT - US-P
ACT - 19910805 US/AE-A
APPLICATION DATA (PATENT)
{US 740629/91 19910805 [1991US-0740629]}
- 19910805 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. A CORPORATION OF JAPAN 1006,
OAZA KADOM * MIYAGAWA, NAOYASU : 19910730; GOTOH, YASUHIRO : 19910730
- 19930810 US/A
PATENT
- 19950606 US/RF
REISSUE APPLICATION FILED
950301
- 20000201 US/RF
REISSUE APPLICATION FILED
19991213
- 20000222 US/RF
REISSUE APPLICATION FILED
19991019
- 20000314 US/RF
REISSUE APPLICATION FILED
19991213
- 20000502 US/RF
REISSUE APPLICATION FILED
19991213
UP - 2000-18

2/8 CRXX (1/1) - (C) CLAIMS/RRX
AN - 2387518
PN - 5,235,581 A 19930810 [US5235581]
PA - Matsushita Electric Industrial Co Ltd JP
PT - E (Electrical)
ACT - 19950301 REISSUE REQUESTED
Issue Date of O.G.: 19950606
Reissue Request Number: 08/396981
Examination Group responsible for Reissue process: 2513
Reissue Patent Number: USRE36445

- 19991019 REISSUE REQUESTED
Issue Date of O.G.: 20000222
Reissue Request Number: 09/420603
Examination Group responsible for Reissue process: 2753

- 19991213 REISSUE REQUESTED
Issue Date of O.G.: 20000201
Reissue Request Number: 09/460223
Examination Group responsible for Reissue process: 2753

- 19991213 REISSUE REQUESTED
Issue Date of O.G.: 20000314
Reissue Request Number: 09/460221
Examination Group responsible for Reissue process: 2753

- 19991213 REISSUE REQUESTED

Issue Date of O.G.: 20000502
Reissue Request Number: 09/460222
Examination Group responsible for Reissue process: 2753

UP - 1999-00
UACT- 2000-05-02

3/8 PAST (1/6) - (C) PAST
AN - 200018-001115
PN - 5235581 A [US5235581]
DT - A (UTILITY)
OG - 2000-05-02
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

4/8 PAST (2/6) - (C) PAST
AN - 200011-001233
PN - 5235581 A [US5235581]
DT - A (UTILITY)
OG - 2000-03-14
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

5/8 PAST (3/6) - (C) PAST
AN - 200008-001102
PN - 5235581 A [US5235581]
DT - A (UTILITY)
OG - 2000-02-22
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

6/8 PAST (4/6) - (C) PAST
AN - 200005-001258
PN - 5235581 A [US5235581]
DT - A (UTILITY)
OG - 2000-02-01
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED

7/8 PAST (5/6) - (C) PAST
AN - 199950-001282
PN - 5235581 A [US5235581]
DT - A (UTILITY)
OG - 1999-12-14
CO - RE
ACT - REISSUE PATENT
SH - REISSUE PATENT
RL - USRE36445

8/8 PAST (6/6) - (C) PAST
AN - 199523-001176
PN - 5235581 A [US5235581]
DT - A (UTILITY)
OG - 1995-06-06
CO - REA
ACT - REISSUE APPLICATION FILED
SH - REISSUE APPLICATION FILED